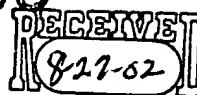network, wherein it is provided with a computer telephony server connected to the local computer network and to a general telephone network, each telephone set is provided with an interface, each telephone set interface being connected directly to the local computer network connecting computers, the interface being capable of converting analog/digital signals adapted to the clock frequency of the local network, user call signals into addresses of other interfaces connected to said local computer network, and hang-up signals.

3.   (Amended twice) A network as claimed in claim 1, wherein the interface has a transmission channel and reception channels, the transmission channel having a signal detector-distributor with an input connected to a telephone set, a first output of said signal detector-distributor being connected to the input of a tone dialing recognition device having its output connected to the input of a recognized number transmission device, which has its output connected to the local computer network, a second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit having software to allow exchange of digital data to be effected within the

2

framework of common network protocols, and the reception channel having a voice and tone signal transmission priority device having its output connected to the telephone set and a first input connected to the output of a call signal dialer, whose input is connected to a call number data converter having its input connected to the local computer network, a second input of the voice and tone signal transmission priority device being connected to the output of a voice signal transmitter, whose input is connected to the output of a decompressor having its input connected to said processor unit.

5. (Amended twice) A system to maintain telephone communication between remote structured sites, comprising, at a first site, an internal telephone network including a local computer network to connect computers at the transmitting and receiving ends of the system, a computer telephony server connected to the local computer network of said site and to the general telephone network, and telephone sets to provide telephone communication between parties at the transmitting and receiving ends through said local computer network, each telephone set is provided with an interface, each telephone set interface being directly connected to the local computer network, the interface being capable of converting analog/digital

3

signals adapted to the clock frequency of the local network, user call

signals into the addresses of other interfaces connected to said local

computer network, and hang-up signals, each successive site having

an internal telephone network duplicating the internal telephone

network of the first site, the local computer network of each site being

provided with a router connected thereto and to a router of the local

computer network of at least one other site through a communication

channel of the computer networks of the remote structured sites.

7.   (Amended twice) A system as claimed in claim 5, wherein

the interface has a transmission channel and at least one reception

channel, the transmission channel having a signal detector-distributor

connected to the input of the telephone set and a first output

connected to the input of a tone dialing recognition device, whose

output is connected to the input of a recognized number transmission

device having its output connected to the local computer network, a

second output of the signal detector-distributor being connected to

the input of an analog-to-digital converter having its output connected

to the input of a compressor whose output is connected to a

processor unit provided with software to allow exchange of digital

data to be effected within the framework of common network

4

protocols, and one of the reception channels having a voice and tone signal transmission priority device having its output connected to the telephone set and a first input connected to the output of a call signal dialer, which has its input connected to a call number data converter having its input connected to the local computer network, a second input of the voice and tone signal transmission priority device being connected to the output of a voice signal transmitter having its input connected to the output of a digital-to-analog converter having its input connected to the output of a decompressor, whose output is connected to said processor unit.

9. (Amended) A telephone network for a structured site, essentially of a business office type, comprising a local computer network connecting computers at the transmitting and receiving ends of the system, and telephone sets to provide telephone communication between the parties at the transmitting and receiving ends through said local computer network, each said telephone set being provided with an interface, each telephone set interface being connected, directly to the local computer network, the interface being capable of converting analog/digital signals adapted to the clock frequency of the local network, user call signals into addresses of

5

other interface connected to said local computer network, and hang-up signals.

10. (Amended) A network as claimed in claim 9, wherein the interface has a transmission channel and at least one reception channel, the transmission channel having a signal detector-distributor with an input connected to a telephone set, a first output of said signal detector-distributor being connected to the input of a tone dialing recognition device having its output connected to the input of a recognized number transmission device, which has its output connected to the local computer network, a second output of the signal detector-distributor being connected to the input of an analog-to-digital converter having its output connected to the input of a compressor whose output is connected to a processor unit having software to allow exchange of digital data to be effected within the framework of common network protocols, and at least one reception channel having a voice and tone signal transmission priority device having its output connected to the telephone set and a first input connected to the output of a call signal dialer, whose input is connected to a call number data converter having its input connected to the local computer network, a second input of the voice and tone

6